

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: EPHESUS

Report Number: P575301

Luminaire Tested: **EPH-VN-03-750-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575301
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-750-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

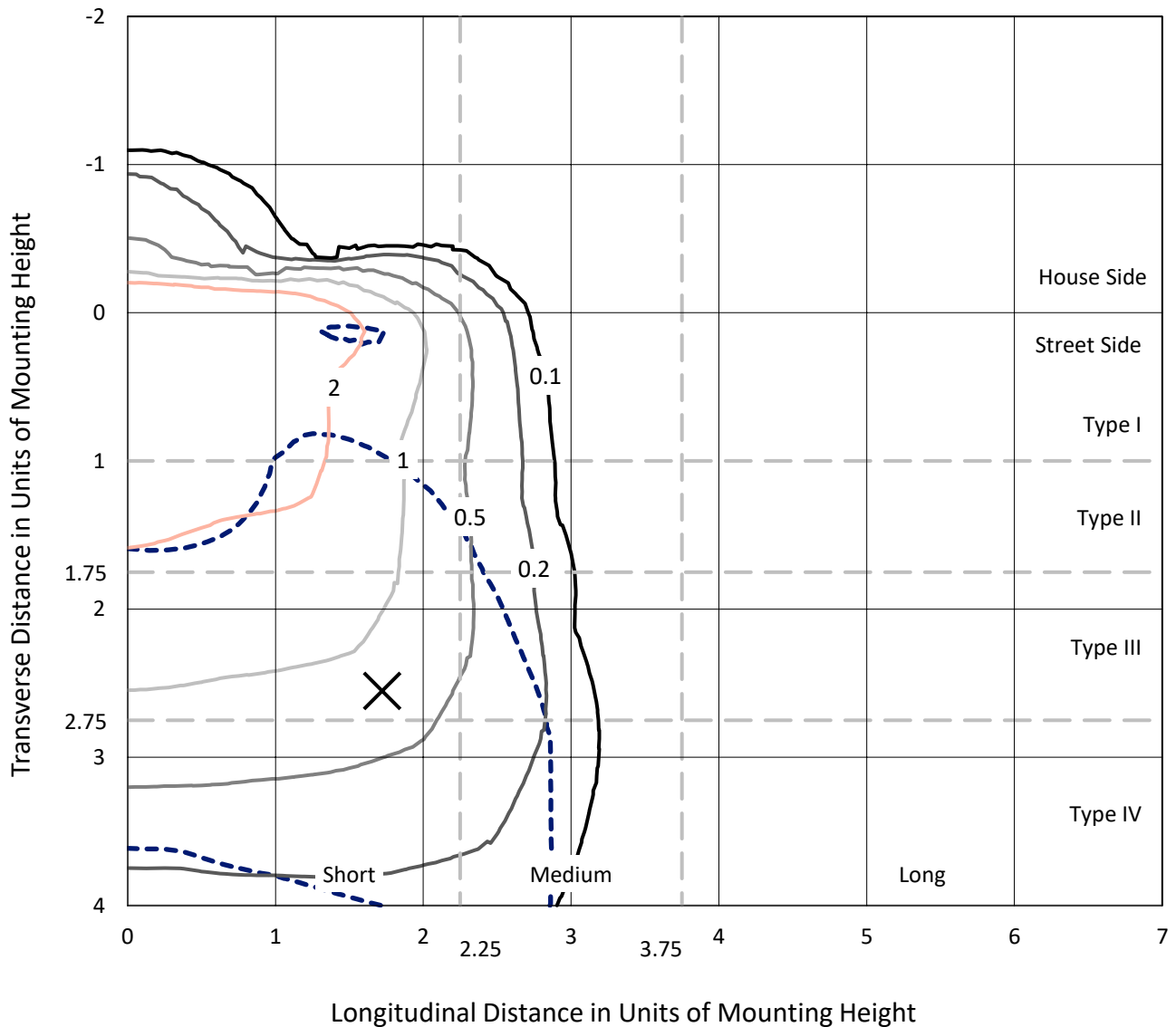
Lumens per Lamp: N/A
Luminaire Lumens: 17239.4 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P575301
 CATALOG NUMBER: EPH-VN-03-750-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

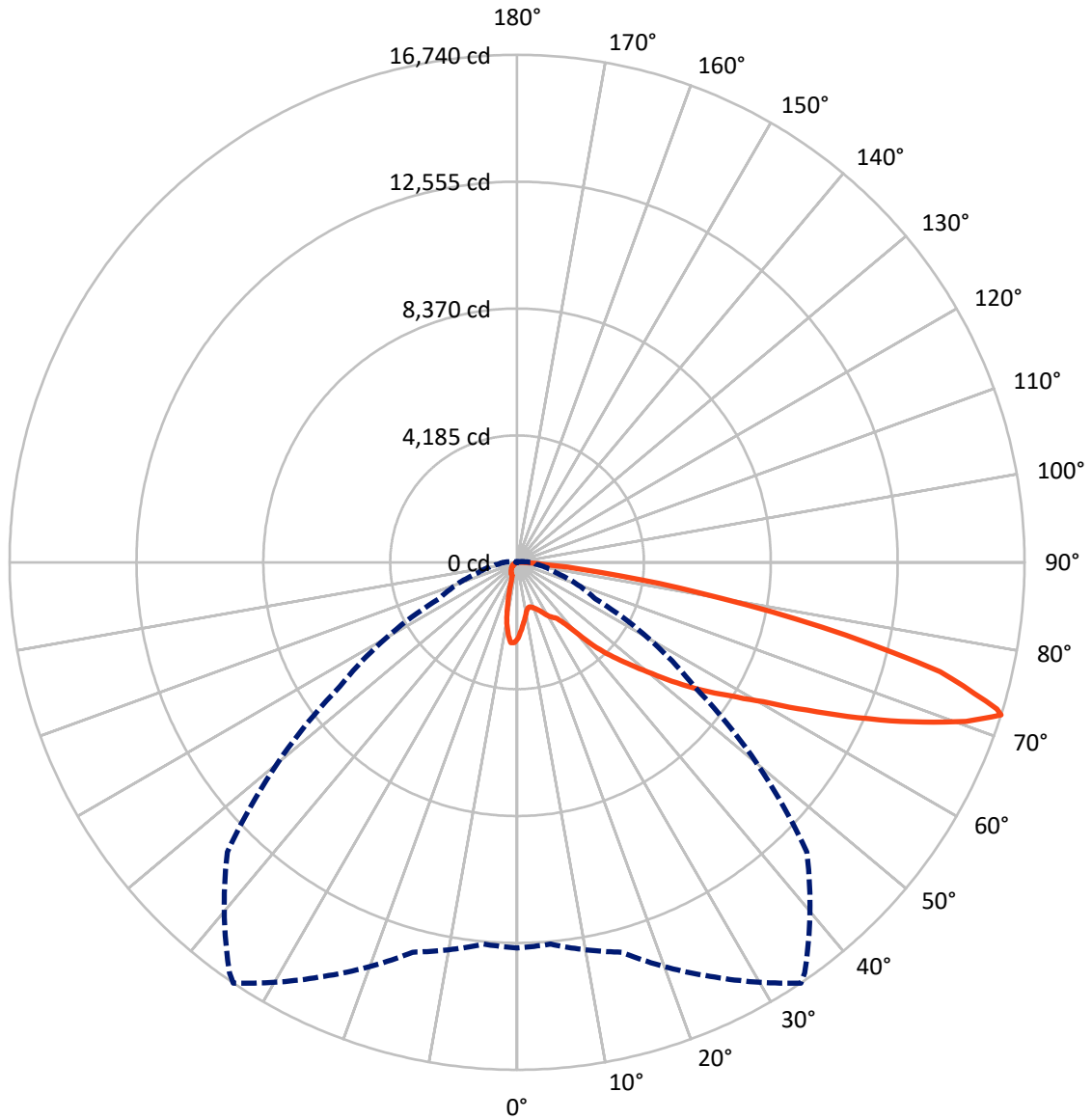
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

REPORT NUMBER: P575301
CATALOG NUMBER: EPH-VN-03-750-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P575301
 CATALOG NUMBER: EPH-VN-03-750-U-T4FT-HSS

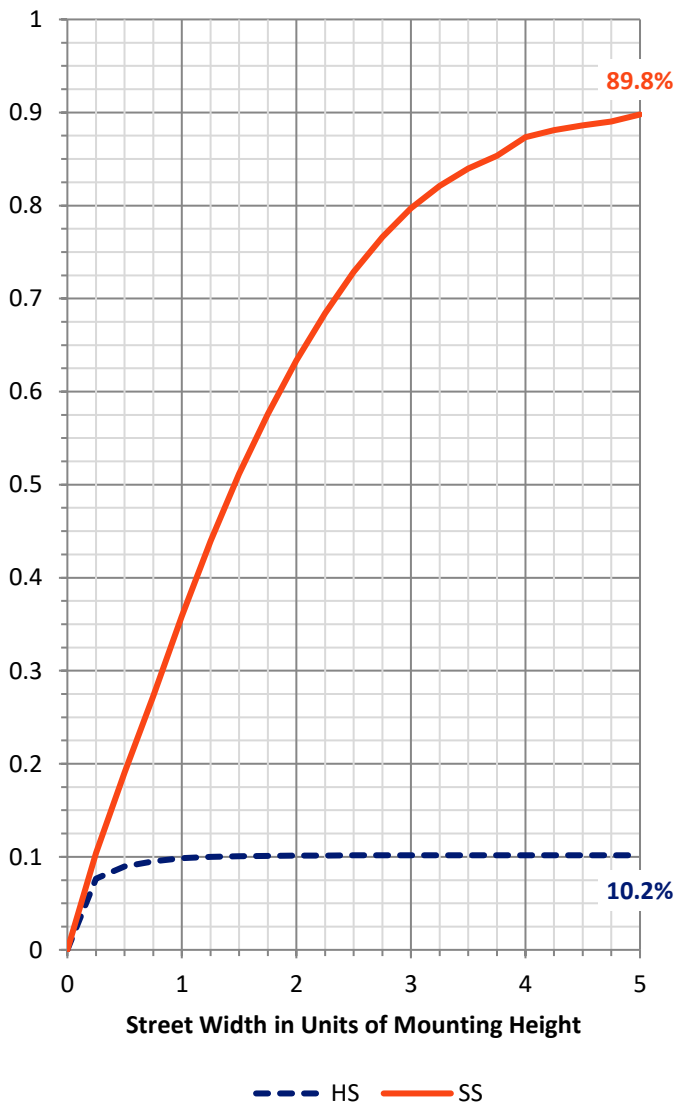
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1764.9	0.0	1764.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	15474.5	0.0	15474.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	17239.4	0.0	17239.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	1.3
10°-20°	495.7	2.9
20°-30°	748.2	4.3
30°-40°	1214.2	7.0
40°-50°	2283.2	13.2
50°-60°	3733.0	21.7
60°-70°	4962.5	28.8
70°-80°	3323.4	19.3
80°-90°	260.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17239.4	100.0
0°-180°	17239.4	100.0

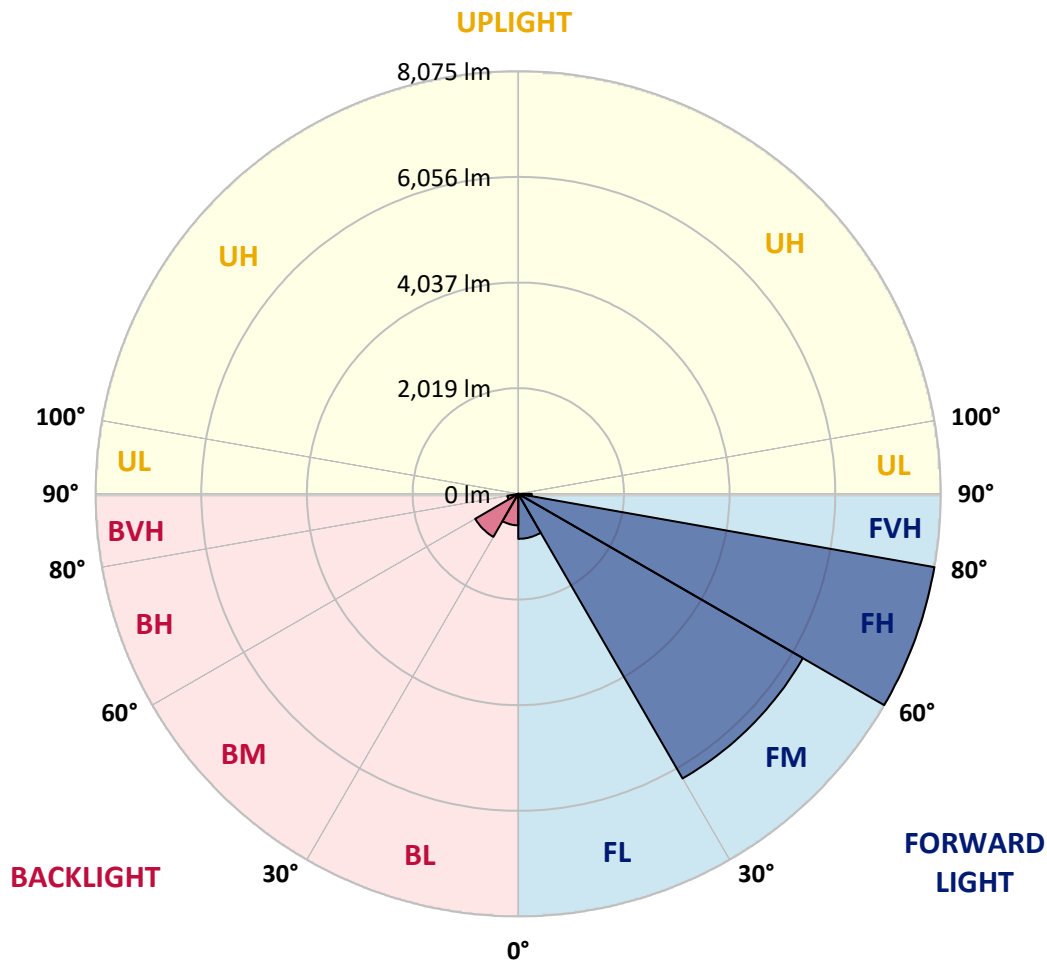


REPORT NUMBER: P575301
 CATALOG NUMBER: EPH-VN-03-750-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.6	5.0			
FM (30°-60°)	6280.3	36.4			
FH (60°-80°)	8074.8	46.8			G4/12000
FVH (80°-90°)	258.8	1.5			G3/500
BL (0°-30°)	602.2	3.5	B2/1000		
BM (30°-60°)	950.0	5.5	B1/1000		
BH (60°-80°)	211.1	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





REPORT NUMBER: P575301
 CATALOG NUMBER: EPH-VN-03-750-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1
2.5°	2230.6	2225.6	2240.5	2265.4	2290.4	2280.4	2327.7	2377.6	2412.5	2459.8
5°	1948.9	1961.4	1976.3	2026.2	2058.6	2066.1	2153.3	2218.1	2325.3	2434.9
7.5°	1692.2	1707.2	1737.1	1791.9	1859.2	1876.7	1963.9	2093.5	2233.0	2377.6
10°	1505.3	1520.3	1552.7	1587.6	1677.3	1677.3	1796.9	1976.3	2158.3	2327.7
12.5°	1465.4	1472.9	1470.4	1497.8	1555.2	1567.6	1684.8	1881.6	2093.5	2310.3
15°	1512.8	1517.8	1492.8	1477.9	1527.7	1540.2	1649.9	1824.3	2051.1	2320.3
17.5°	1607.5	1590.0	1540.2	1517.8	1560.1	1567.6	1669.8	1821.8	2046.1	2347.7
20°	1662.3	1682.3	1595.0	1552.7	1612.5	1622.4	1732.1	1861.7	2071.0	2395.0
22.5°	1759.5	1769.5	1652.4	1624.9	1682.3	1682.3	1806.9	1941.5	2130.9	2472.3
25°	1896.6	1884.1	1747.1	1719.6	1774.5	1796.9	1921.5	2068.6	2223.1	2544.6
27.5°	2003.8	2011.2	1899.1	1826.8	1919.0	1934.0	2068.6	2205.6	2292.9	2604.4
30°	2163.3	2148.3	2028.7	1946.4	2061.1	2063.6	2193.2	2335.2	2427.4	2711.6
32.5°	2352.7	2322.8	2185.7	2068.6	2160.8	2183.2	2315.3	2522.1	2636.8	2913.4
35°	2753.9	2681.6	2457.3	2275.4	2282.9	2292.9	2497.2	2793.8	2925.9	3170.1
37.5°	3339.6	3309.7	3055.5	2709.1	2577.0	2547.1	2776.4	3152.7	3317.2	3509.1
40°	3920.3	3877.9	3641.2	3379.5	3140.2	3080.4	3195.0	3628.7	3778.2	3980.1
42.5°	4565.8	4491.0	4211.9	4000.0	3850.5	3785.7	3740.8	4226.8	4396.3	4533.4
45°	5218.7	5096.6	4692.9	4530.9	4451.1	4416.2	4411.3	4979.5	5081.7	5109.1
47.5°	5792.0	5659.9	5293.5	5111.6	5051.8	5041.8	5320.9	5846.8	5767.0	5694.8
50°	6233.1	6148.3	5884.2	5819.4	5774.5	5757.1	6410.0	6739.0	6370.2	6243.1
52.5°	6916.0	6726.5	6427.5	6449.9	6606.9	6609.4	7514.1	7586.4	6871.1	6619.4
55°	7461.8	7337.1	7092.9	7060.5	7474.2	7519.1	8503.5	8229.4	7150.2	6978.3
57.5°	8104.8	8047.4	7870.5	7875.5	8309.1	8403.8	9383.3	8772.7	7382.0	7210.0
60°	9034.4	8869.9	8777.7	8820.0	9330.9	9423.1	10235.6	9164.0	7494.2	7362.1
62.5°	10061.2	9869.3	9769.6	9986.4	10731.6	10746.5	10883.6	9510.4	7424.4	7401.9
65°	11297.3	11107.9	11028.1	11464.3	12349.0	12294.2	11793.3	9657.4	7202.6	7000.7
67.5°	12528.5	12413.8	12249.3	12944.7	14046.2	14046.2	12737.8	9602.6	6621.9	5620.0
70°	13111.7	13191.4	13453.1	14544.7	15713.5	15593.9	13669.9	8972.0	4929.6	3018.1
72°	12722.9	12640.6	13316.0	15068.1	16740.3	16543.5	13512.9	7132.8	2848.6	1323.4
72.5°	12054.9	12132.2	13061.8	14995.8	16548.4	16710.4	13129.1	6579.5	2342.7	1054.2
75°	7392.0	7524.1	9749.6	12732.8	14420.1	14238.1	10155.9	3135.2	899.7	448.6
77.5°	2699.1	2808.7	4730.3	8012.5	10255.5	10140.9	5876.7	1114.0	488.5	334.0
80°	702.8	760.1	1607.5	3696.0	6031.2	6038.7	2459.8	446.1	331.5	274.1
82.5°	139.6	154.5	493.5	1438.0	2818.7	2781.3	777.6	239.3	249.2	224.3
85°	17.4	22.4	104.7	488.5	912.2	817.5	191.9	119.6	184.4	174.5
87.5°	2.5	2.5	24.9	112.2	191.9	186.9	39.9	37.4	82.2	107.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2522.1	0°	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1
2517.2	2.5°	2549.6	2559.5	2594.4	2624.3	2659.2	2669.2	2654.2	2679.2	2644.3	2664.2
2537.1	5°	2554.5	2611.9	2676.7	2719.0	2709.1	2684.1	2664.2	2596.9	2549.6	2532.1
2544.6	7.5°	2589.4	2654.2	2724.0	2724.0	2669.2	2539.6	2415.0	2295.3	2195.7	2145.8
2547.1	10°	2634.3	2701.6	2773.9	2679.2	2474.8	2238.0	2061.1	1836.8	1684.8	1605.0
2586.9	12.5°	2694.1	2788.8	2813.7	2594.4	2255.5	1904.1	1582.6	1271.0	1126.5	1011.8
2651.7	15°	2771.4	2863.6	2788.8	2410.0	1976.3	1458.0	1071.7	775.1	660.4	600.6
2726.5	17.5°	2873.5	2943.3	2781.3	2240.5	1600.0	996.9	658.0	523.4	498.4	488.5
2831.2	20°	2993.2	3045.5	2709.1	1976.3	1188.8	640.5	483.5	468.5	471.0	466.0
2955.8	22.5°	3127.8	3145.2	2626.8	1669.8	805.0	473.5	451.1	453.6	456.1	451.1
3070.4	25°	3269.8	3222.5	2507.2	1310.9	535.8	431.2	436.1	441.1	443.6	446.1
3210.0	27.5°	3429.3	3334.6	2340.2	959.5	418.7	406.2	421.2	436.1	438.6	438.6
3419.3	30°	3663.6	3506.6	2178.2	650.5	368.9	378.8	403.7	421.2	433.6	433.6
3743.3	32.5°	3960.2	3686.0	1951.4	443.6	341.4	346.4	366.4	401.2	428.7	431.2
4177.0	35°	4371.4	3902.8	1714.7	353.9	321.5	324.0	336.5	363.9	411.2	426.2
4740.2	37.5°	4805.0	4149.6	1420.6	319.0	306.5	304.1	311.5	334.0	376.3	413.7
5318.4	40°	5266.1	4408.8	1111.5	301.6	294.1	289.1	291.6	301.6	334.0	381.3
5884.2	42.5°	5699.7	4643.0	834.9	284.1	281.6	276.6	276.6	279.1	296.6	329.0
6512.2	45°	6168.3	4834.9	635.5	271.7	264.2	266.7	256.7	251.7	264.2	266.7
7212.5	47.5°	6606.9	5026.8	508.4	256.7	249.2	249.2	236.8	226.8	226.8	204.4
7828.1	50°	7018.1	5131.5	406.2	236.8	234.3	231.8	214.3	196.9	181.9	154.5
8408.8	52.5°	7359.6	5126.5	314.0	211.8	219.3	211.8	184.4	159.5	137.1	112.2
8623.1	55°	7461.8	4887.3	236.8	174.5	186.9	176.9	147.0	124.6	99.7	79.8
8655.5	57.5°	7374.5	4523.4	179.4	134.6	144.5	134.6	112.2	92.2	69.8	54.8
8575.8	60°	7082.9	4097.2	139.6	104.7	109.7	102.2	84.7	69.8	49.8	34.9
8062.4	62.5°	6529.7	3563.9	107.2	82.2	79.8	79.8	64.8	52.3	34.9	19.9
6714.1	65°	5358.3	2778.8	82.2	57.3	57.3	57.3	49.8	37.4	22.4	10.0
4391.3	67.5°	3364.5	1617.5	67.3	44.9	42.4	42.4	34.9	24.9	12.5	2.5
1727.1	70°	1266.1	593.2	52.3	34.9	32.4	32.4	24.9	15.0	7.5	0.0
600.6	72°	436.1	226.8	42.4	24.9	24.9	22.4	17.4	12.5	5.0	0.0
453.6	72.5°	358.9	181.9	39.9	24.9	22.4	22.4	17.4	12.5	5.0	0.0
162.0	75°	129.6	74.8	27.4	17.4	15.0	15.0	12.5	7.5	2.5	0.0
82.2	77.5°	64.8	47.4	22.4	15.0	12.5	7.5	7.5	5.0	2.5	0.0
49.8	80°	39.9	29.9	12.5	10.0	7.5	5.0	2.5	2.5	0.0	0.0
34.9	82.5°	27.4	17.4	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0
22.4	85°	17.4	7.5	5.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
12.5	87.5°	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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